

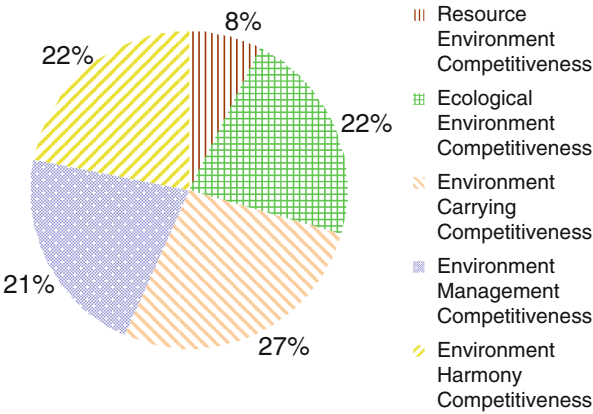
# Chapter 141

## Report on Global Environment

### Competitiveness of the United States

The United States of America is a federal constitutional republic comprising 50 states and a federal district. The country is situated mostly in central North America, where its 48 contiguous states and Washington, D.C., lie between the Pacific and Atlantic Oceans, bordered by Canada to the north and Mexico to the south. It covers 9,147.4 thousand of square kilometers and has a population of 311.59 million. Its GDP reaches \$14,991.30 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of The United States ranks at 26 in 133 countries.

<b>Score:</b>
<b>53.83</b>
<b>Rank:</b>
<b>26</b>



**Fig. 141.1** Contribution of sub-index to GEC

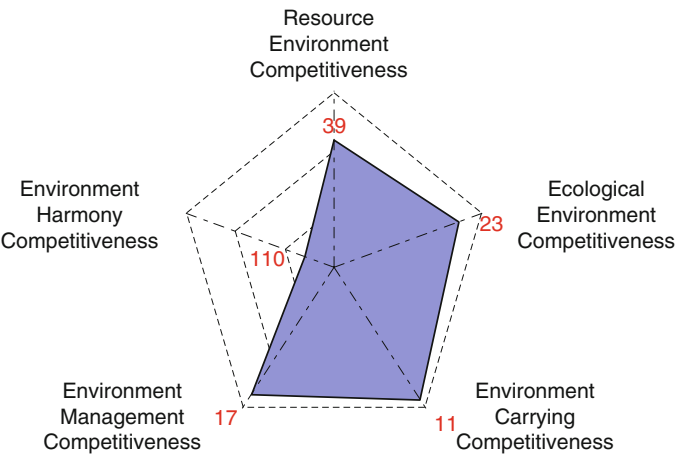


Fig. 141.2 Rank of sub-index of GEC

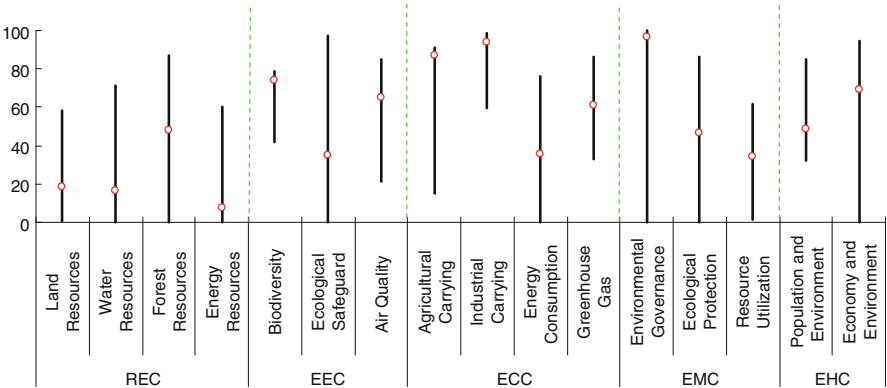


Fig. 141.3 Score and rank of the pillars of GEC

Table 141.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	20.44	39	Total internal renewable water resources	15.54	61
1.1 Land Resources	18.21	36	1.3 Forest Resources	47.63	15
Land area per capita	5.27	38	Growing stock in forest and other wooded land	100.00	1
Percentage of arable land to total land area	29.60	47	Proportion of land area covered by forest	38.98	51
Arable land per capita	24.06	13	Forest area per capita	6.81	26
1.2 Water Resources	16.69	61	1.4 Energy Resources	7.54	54
Surface water	3.44	67	Fossil energy	10.73	12
Annual precipitation	26.06	70	Energy production	5.63	17
Groundwater	21.74	36			

(continued)

**Table 141.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Proportion of combustible renewable and waste to total energy consumption	4.37	89	Ratio of clean energy consumption	20.22	32
Net energy imports of the energy consumption	9.83	61	Elasticity of energy consumption	13.48	96
<b>2 Ecological Environment Competitiveness</b>	<b>58.67</b>	<b>23</b>	Elasticity of electric power consumption	8.46	111
2.1 Biodiversity	73.84	3	3.4 Greenhouse Gas	61.16	71
Threatened fish species	13.68	132	Growth rate of CO <sub>2</sub> emissions	52.61	62
Threatened mammal species	79.89	115	Growth rate of Methane emissions	66.54	18
Threatened plant species	87.22	122	CO <sub>2</sub> emissions per unit of land area	99.35	105
GEF benefits index for biodiversity	94.20	2	CO <sub>2</sub> emissions per unit of energy consumption	34.71	88
2.2 Ecological Safeguard	35.19	32	<b>4 Environment Management Competitiveness</b>	<b>57.79</b>	<b>17</b>
Terrestrial protected areas	33.42	58	4.1 Environmental Governance	96.30	35
Marine protected areas	37.85	8	Agricultural chemicals regulation	95.24	20
2.3 Air Quality	64.90	55	Percentage of the rural population with access to an improved water source	94.00	49
Inhalable particles (PM10)	86.86	30	Percentage of the urban population with access to an improved water source	100.00	1
Particulate matter (PM2.5)	86.68	57	4.2 Ecological Protection	46.74	19
Index of indoor air pollution	100.00	1	Area of plantation and afforestation	32.87	2
Nitrogen oxides emission	1.12	131	Biome protect	49.40	73
Sulfur dioxide emission	0.13	130	Overfishing of fishing resources	62.59	31
<b>3 Environment Carrying Competitiveness</b>	<b>73.42</b>	<b>11</b>	4.3 Resource Utilization	34.02	76
3.1 Agricultural Carrying	86.67	3	Utilization rate of water resources	0.63	51
Cereal yield per unit of arable land	74.68	7	Percentage of total internal renewable water resources to total water resources	65.60	64
Fertilizer consumption per unit of arable land	91.16	84	Percentage of agricultural land to total land area	52.13	63
Annual freshwater withdrawals for agriculture per unit of arable land	98.17	72	Percentage of fossil fuel energy consumption to total energy consumption	17.72	78
3.2 Industrial Carrying	93.68	36	<b>5 Environment Harmony Competitiveness</b>	<b>58.82</b>	<b>110</b>
Net exports of goods as a percentage of GDP	93.80	7	5.1 Population and Environment	48.48	128
Electric power consumption per unit of value added of industry	89.86	86			
SO <sub>2</sub> emissions per unit of value added of industry	99.87	48			
Annual freshwater withdrawals for industry per value added of industry	91.20	113			
3.3 Energy Consumption	35.41	42			
Energy consumption per unit of land area	99.49	98			

(continued)

**Table 141.1** (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of population with access to Improved sanitation facilities	100.00	1	5.2 Economy and Environment Land resource utilization efficiency	69.16	34
Motor vehicles per 1,000 people	0.00	133	Sulfur dioxide emissions per unit of GDP	0.48	29
Renewable internal freshwater resources per capita	10.94	35	Carbon dioxide emissions per unit of GDP	97.02	38
SO <sub>2</sub> emissions per capita	81.24	112	Energy consumption per unit of GDP	87.69	68
CO <sub>2</sub> emissions per capita	53.14	128		91.46	34
Energy consumption per capita	44.52	120			

**Table 141.2** Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	1	3	6	4	0
Ecological Environment Competitiveness	11	2	1	4	0	4
Environment Carrying Competitiveness	15	3	1	4	6	1
Environment Management Competitiveness	10	1	2	3	4	0
Environment Harmony Competitiveness	10	1	1	3	1	4
Total	60	8	8	20	15	9

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